AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

- 1-39, (Cancelled)
- (Currently Amended) A method of producing an oriented oxide superconducting film, comprising:

providing a metal oxyfluoride film on a biaxially textured substrate, said metal oxyfluoride film comprising the constituent metallic elements of an oxide superconductor in substantially stoichiometric proportions;

converting the metal oxyfluoride into the oxide superconductor film in a processing gas having a total pressure less than atmospheric pressure under conditions that enable the removal of HF from the film surface, wherein the oriented oxide superconducting film exhibits c-axis texturing, and wherein the total pressure is less than about 8 Torr.

- 41. (Canceled)
- (Currently Amended) The method of claim [[41]] 40, wherein the total pressure is less than about 1 Torr
- (Original) The method of claim 42, wherein the total pressure is less than about 0.1
 Torr.
- (Original) The method of claim 43, wherein the total pressure is less than about 0.01 Torr.
- 45. (Original) The method of claim 44, wherein the total pressure is less than about 0.01 Torr

- (Original) The method of claim 45, wherein the total pressure is less than about 0.001 Torr.
- (Original) The method of claim 40, wherein the processing gas consists substantially of water vapor and oxygen.
 - (Canceled)
- 49. (Previously presented) The method of claim 85, wherein the buffer layer comprises a member of yttria-stabilized zirconia, LaAlO₃, SrTiO₃, CeO₂, Y₂O₃, and MgO and any combination of the above.
- 50. (Original) The method of claim 40, wherein the film has a thickness of at least $0.3\mu m$.
- (Previously presented) The method of claim 50, wherein the film has a thickness of at least 0.5 µm.
- 52. (Original) The method of claim 51, wherein the film has a thickness of at least $0.8\,$ um.
- (Original) The method of claim 52, wherein the film has a thickness of at least 1
 μm.
 - 54. (Original) The method of claim 40, wherein the superconductor comprises YBCO.
 - 55. (Original) The method of claim 40, wherein the substrate comprises a ceramic.
- (Original) The method of claim 55, wherein the ceramic is selected from the group consisting of YSZ, LaAlO₃, SrTiO₃, CeO₂, and MgO.

- (Previously presented) The method of claim 40, wherein the substrate comprises a
 metal.
- (Original) The method of claim 57, wherein the metal is selected from steel, nickel, iron, molybdenum, copper, silver, and alloys and mixtures thereof.
- 59. (Original) The method of claim 40, wherein the film has a Jc greater than 0.45 MA/cm^2
- (Original) The method of claim 59, wherein the film has a Jc greater than 1 MA/cm².
- 61. (Original) The method of claim 60, wherein the film has a Jc greater than 2 MA/cm^2 .
- (Original) The method of claim 61, wherein the film has a Jc greater than 4 MA/cm².
 - 63-84. (Canceled)
- 85. (Previously presented) The method of claim 40, further comprising depositing a buffer layer on the substrate before providing the metal oxyfluoride film on the substrate.
- 86. (Previously presented) The method of claim 40, wherein the superconductor film has a critical current density of greater than 0.45 MA/cm².
- 87. (Previously presented) The method of claim 40, wherein the superconductor film has a critical current density of greater than 1 MA/cm².
- 88. (Previously presented) The method of claim 40, wherein the superconductor film has a critical current density of greater than 2 MA/cm².

	89.	(Previously presented) The method of claim 40, wherein the superconductor film
has a critical current density of greater than 4 MA/cm ² .		